Dr. Reed L. Hoskinson

Extensive experience and research in software development, precision agriculture, agricultural sensors and control systems, and bioenergy.

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Education: Dr. Reed Hoskinson earned his B.A. from University of Iowa, his M.S. from the University of Minnesota and his Ph.D. from the University of Minnesota.

Licensing information

For information on licensing INL technologies such as those developed by Dr. Hoskinson, contact the Lead Account Executive for Industrial Processing and Manufacturing:

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Work Experience: Dr. Hoskinson has worked at the Idaho National Laboratory (INL) for 21 years. Reed has worked in scientific programming for over 38 years, including modeling of agricultural ecosystems and statistical analyses of ecological data, and as a Manager of major software systems development for a Top 5 computer manufacturer. He was one of the founders of the INL Spatial Analysis Laboratory for GIS applications, and later was the Manager of the GIS Laboratory. For about nine years Reed was the Principal Investigator for the INL Precision Agriculture research program. For the past six years he has been the Principal Investigator on the funds-in CRADA with CNH America LLC – the world's largest manufacturer of agricultural equipment. He is presently a Consulting Scientist in the Renewable Energy and Power Department.

Professional Endeavors: Reed is now working in the INL Bioenergy Initiative, conducting research on feedstock assembly systems for using agricultural crop residues as a source of bioenergy.

Reed is a member of the American Society of Agricultural and Biological Engineers (ASABE) and is Chairman of the FPE-709 Biomass Energy and Industrial Products Committee, Secretary of the FPE-01 Executive Committee, and a member of the Project X593 Biomass Definitions Standards Committee and the PM 23/7/1 Grain Harvesting Committee.

Patents:

U.S. Patent No. 6,865,582 –Systems and Methods for Knowledge Discovery in Spatial Data

U.S. Patent No. 6,729,951 – Method and Apparatus for Selectively Harvesting Multiple Components of a Plant Material

U.S. Patent No. 6,591,145 – Systems and Methods for Autonomously Controlling Agricultural Machinery

U.S. Patent No. 6,497,153 – Measuring Spatial Variability in Soil Characteristics

U.S. Patent No. 6,386,128 – Methods and Systems for Seed Planting Management and Control